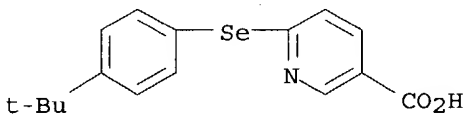
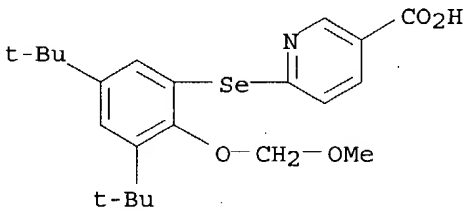
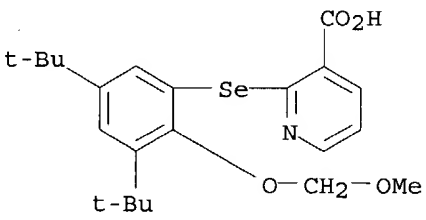
L13 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:338377 CAPLUS
DN 133:89593
TI Solution-Phase Synthesis of Diaryl Selenides Using Polymer-Supported Borohydride
AU Millois, Corinne; Diaz, Philippe
CS GALDERMA RD, Sophia-Antipolis, F06902, Fr.
SO Organic Letters (2000), 2(12), 1705-1708
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 133:89593
AB A new series of selenium-containing diaryl retinoids have been prepared by a new direct nickel(II)-catalyzed coupling of a diselenide with an iodoaryl in the presence of polymer-supported borohydride. Thus, (bpy)2NiBr2-catalyzed coupling reaction of bis(4-chlorophenyl) diselenide with Me 3-iodobenzoate in the presence of Aldrich 32,864-2 resin in THF/MeOH gave 84% 4-ClC6H4SeC6H4CO2Me-2.
IT **252352-02-6P 252352-21-9P 252352-22-0P 282087-23-4P 282087-24-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 252352-02-6 CAPLUS
CN 3-Pyridinecarboxylic acid, 6-[[4-(1,1-dimethylethyl)phenyl]seleno]- (9CI) (CA INDEX NAME)



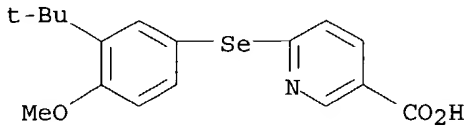
RN 252352-21-9 CAPLUS
CN 3-Pyridinecarboxylic acid, 6-[[3,5-bis(1,1-dimethylethyl)-2-(methoxymethoxy)phenyl]seleno]- (9CI) (CA INDEX NAME)



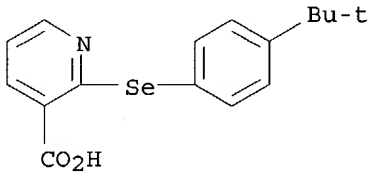
RN 252352-22-0 CAPLUS
CN 3-Pyridinecarboxylic acid, 2-[[3,5-bis(1,1-dimethylethyl)-2-(methoxymethoxy)phenyl]seleno]- (9CI) (CA INDEX NAME)



RN 282087-23-4 CAPLUS
CN 3-Pyridinecarboxylic acid, 6-[[3-(1,1-dimethylethyl)-4-methoxyphenyl]seleno]- (9CI) (CA INDEX NAME)



RN 282087-24-5 CAPLUS
CN 3-Pyridinecarboxylic acid, 2-[[4-(1,1-dimethylethyl)phenyl]seleno]- (9CI) (CA INDEX NAME)

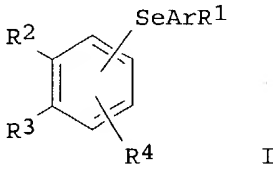


RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:811209 CAPLUS
DN 132:35910
TI Preparation of diaryl selenide compounds and their use in human or veterinary medicine and in cosmetics
IN Bernardon, Jean-Michel; Diaz, Philippe
PA Galderma Research & Development, S.N.C., Fr.
SO PCT Int. Appl., 81 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9965872	A1	19991223	WO 1999-FR1389	19990611
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2779720	A1	19991217	FR 1998-7439	19980612
FR 2779720	B1	20020816		
CA 2334843	AA	19991223	CA 1999-2334843	19990611
AU 9940491	A1	20000105	AU 1999-40491	19990611
AU 753187	B2	20021010		
EP 1086080	A1	20010328	EP 1999-923723	19990611
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9911833	A	20010925	BR 1999-11833	19990611
JP 2002518371	T2	20020625	JP 2000-554699	19990611
ZA 2000006518	A	20010730	ZA 2000-6518	20001110
NO 2000006337	A	20010212	NO 2000-6337	20001212

PRAI FR 1998-7439 A 19980612
WO 1999-FR1389 W 19990611
OS MARPAT 132:35910
GI

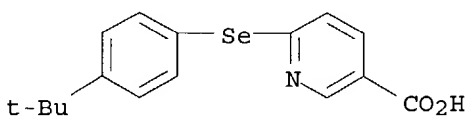


I

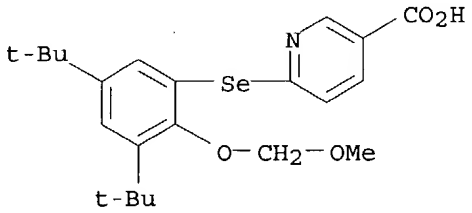
AB The invention concerns novel diaryl selenide compds. corresponding to I and their geometric and optical isomers and salts and the use thereof in pharmaceutical compns. in human or veterinary medicine (in the treatment of dermatol., rheumatic, cardiovascular and ophthalmol. pathologies in particular), or in cosmetic compns. In I, R1 = Me, CH2OR5 (R5 = H, lower alkyl, C(O)R10 (R10 = lower alkyl)), C(O)R6 (R6 = H, lower alkyl, OR12 (R12 = H, lower alkyl, aryl, aralkyl possibly substituted, monohydroxyalkyl, polyhydroxyalkyl), NR'R'' (R'/R'' = H, lower alkyl, aryl possibly substituted, amino acid fragment; R' and R'' together with N form a heterocycle)); Ar = R7-substituted benzene or pyridine diradical (R7 = H, halogen, lower alkyl, nitro, OR13 (R13 = H, lower alkyl), polyether radical, NR14R15 (R14/R15 = H, lower alkyl)), diradicals of furan, thiophene or thiazole; R2/R3 = H, tBu, 1-methylcyclohexyl, 1-adamantyl, OR8 (R8 = H, lower alkyl, aryl possibly substituted, aralkyl possibly substituted, monohydroxyalkyl, polyhydroxyalkyl, lower alkyl), polyether radical, where at least one of R2 or R3 = tBu, 1-methylcyclohexyl, 1-adamantyl; R2 and R3 may together with an adjacent aromatic ring form a saturated 5- or 6-membered ring possibly substituted by Me groups and/or possibly interrupted by O or S; R4 = H, halogen, lower alkyl, OR9 (R9 = H, lower alkyl, aryl possibly substituted, aralkyl possibly substituted, monohydroxyalkyl, polyhydroxyalkyl, lower alkyl, (CH2)nCO2R16 (R16 = H, lower alkyl; n = 1-12), (CH2)nX (X = halogen)), polyether radical, C(O)R10. Although the method of preparation is not claimed, 70 example prepns. are included. In a typical preparation, a haloarene (e.g. 2-bromo-5,6,7,8-tetrahydro-3,5,5,8,8-pentamethylnaphthalene) is successively reacted with tBuLi in THF, Se, and NaOH in EtOH to give a diselenide, which is cleaved with NaBH4 in EtOH to give the Na salt of an areneselenol, which is undergoes metathesis with IR1 or BrR1 (e.g. Et 4-iodobenzoate) in the presence of NiBr2py2 in EtOH to give I (e.g. Et 4-(3,5,5,8,8-pentamethyl-5,6,7,8-tetrahydronaphthalen-2-ylselenenyl)benzoate).

IT **252352-02-6P**, 6-(4-tert-Butylphenylselenenyl)nicotinic acid **252352-21-9P**, 6-(3,5-Di-tert-butyl-2-methoxymethoxyphenylselenenyl)nicotinic acid **252352-22-0P**, 2-(3,5-Di-tert-butyl-2-methoxymethoxyphenylselenenyl)nicotinic acid
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of diaryl selenide compds. and use in human or veterinary medicine and in cosmetics)

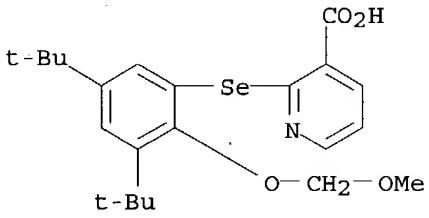
RN 252352-02-6 CAPLUS
CN 3-Pyridinecarboxylic acid, 6-[[4-(1,1-dimethylethyl)phenyl]seleno]- (9CI) (CA INDEX NAME)



RN 252352-21-9 CAPLUS
CN 3-Pyridinecarboxylic acid, 6-[[3,5-bis(1,1-dimethylethyl)-2-(methoxymethoxy)phenyl]seleno]- (9CI) (CA INDEX NAME)

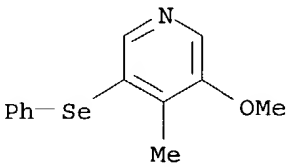


RN 252352-22-0 CAPLUS
CN 3-Pyridinecarboxylic acid, 2-[[3,5-bis(1,1-dimethylethyl)-2-(methoxymethoxy)phenyl]seleno]- (9CI) (CA INDEX NAME)

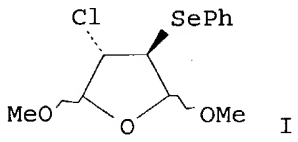


RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1981:480674 CAPLUS
DN 95:80674
TI Regioselective metalation of the 4-position of pyridine. New and convenient alkylation and acylation of 3-amino-5-methoxypyridine
AU Tamura, Yasumitsu; Fujita, Masanobu; Chen, Ling-Ching; Inoue, Minako; Kita, Yasuyuki
CS Fac. Pharm. Sci., Osaka Univ., Suita, Japan
SO Journal of Organic Chemistry (1981), 46(17), 3564-7
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 95:80674
AB The reaction of 3-methoxy-5-pivaloylaminopyridine with BuLi at low temperature in THF gives the 4-lithiopyridines, which react with various electrophiles to give the corresponding 4-substituted 3-methoxy-5-pivaloylaminopyridines. The conversion of the 5-pivaloylamino group to other substituents via the pyridyl radical was also examined
IT **77903-30-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 77903-30-1 CAPLUS
CN Pyridine, 3-methoxy-4-methyl-5-(phenylseleno)- (9CI) (CA INDEX NAME)

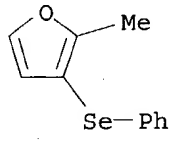


AN 1997:745323 CAPLUS
DN 128:34826
TI Reactions of 2,5-dihydro-2,5-dimethoxyfuran with phenylselenenyl chloride: regio- and stereocontrolled generation of highly functionalized C4 building-blocks
AU D'Onofrio, Franco; Margarita, Roberto; Parlanti, Luca; Pernazza, Daniele; Piancatelli, Giovanni
CS Dip. Chim. Cent. CNR Stud. Chim. Sostanze Organiche Natural, Univ. "La Sapienza", Rome, 00185, Italy
SO Tetrahedron (1997), 53(46), 15843-15852
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 128:34826
GI



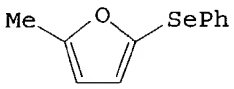
I

AB An efficient protocol for stereo- and regiocontrolled synthesis of small polyfunctional mols. is presented. The stereospecific addition of PhSeCl to 2,5-dihydro-2,5-dimethoxyfuran in solvents, such as CH2Cl2 and MeOH, gives cyclic and linear acetals I and (2S*,3R*)-(MeO)2CHCHClCH(SePh)CH(OMe)2, depending on the solvent used. Emphasis is given to the regiocontrolled hydrolysis of acetal groups for the preparation of stereodefined and highly functionalized C4 synthons, such as (2S*,3S*)-(MeO)2CHCHClCH(SePh)CHO, (E)-(MeO)2CHCH:C(SePh)CHO, and (Z)-(MeO)2CHC(SePh):CHCHO.
IT **199535-77-8P**, 2-Methyl-3-(phenylseleno)furan
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 199535-77-8 CAPLUS
CN Furan, 2-methyl-3-(phenylseleno)- (9CI) (CA INDEX NAME)



RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1987:32738 CAPLUS
DN 106:32738
TI Oxidation of some furanoselenium compounds
AU Pennanen, Seppo I.
CS Dep. Chem., Univ. Kuopio, Kuopio, 70211/21, Finland
SO Synthetic Communications (1986), 16(8), 877-82
CODEN: SYNCAV; ISSN: 0039-7911
DT Journal
LA English
OS CASREACT 106:32738
GI



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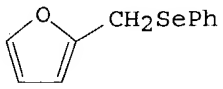

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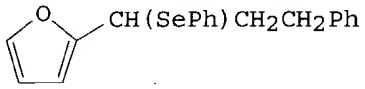

III

AB The title compds. I, II, and III were oxidized with H2O2 and the products were identified. I gave 74% 5-methyl-2-furanone. II gave unstable 2-methylene-3-hydroxy-2,3-dihydrofuran which rapidly isomerized to furfuryl alc. III gave 2-(3-phenyl-1-propenyl)furan and another unstable compound which rapidly rearranged to 2-(1-hydroxy-3-phenylpropyl)furan.

IT **106154-32-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

RN 106154-32-9 CAPLUS

CN Furan, 2-methyl-5-(phenylseleno)- (9CI) (CA INDEX NAME)